Performance Data Sheet

AEA9422EXA

General Information

Model	AEA9422EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	2450	2050	1660	1270	849	394	
	Watts	427	382	359	359	381	428	500
	Amps	5.88	5.59	5.46	5.41	5.39	5.32	5.15
	Lb/h	30.5	26.2	21.9	17.4	12.5	6.96	0.53
5	Btu/h	2510	2240	1980	1710	1420	1100	720
	Watts	404	382	372	376	394	427	477
	Amps	5.82	5.57	5.48	5.48	5.50	5.48	5.36
	Lb/h	31.0	28.5	26.0	23.5	20.5	16.9	12.4
10	Btu/h	2590	2390	2210	2020	1810	1570	1270
	Watts	376	379	385	395	411	433	463
	Amps	5.82	5.61	5.55	5.59	5.65	5.68	5.60
	Lb/h	31.7	30.4	29.2	27.8	26.1	23.8	20.6
15	Btu/h	2770	2610	2450	2290	2120	1910	1640
	Watts	345	374	398	418	435	449	461
	Amps	5.84	5.67	5.65	5.72	5.83	5.89	5.86
	Lb/h	34.0	33.2	32.5	31.7	30.6	28.9	26.4
20	Btu/h	3170	2980	2800	2630	2430	2200	1920
	Watts	312	371	416	448	467	475	472
	Amps	5.88	5.74	5.75	5.86	6.00	6.10	6.10
	Lb/h	39.1	38.1	37.3	36.5	35.3	33.5	31.0
25	Btu/h	3860	3600	3360	3110	2840	2550	2200
	Watts	279	371	439	486	510	515	499
	Amps	5.91	5.79	5.84	5.98	6.15	6.28	6.32
	Lb/h	48.2	46.4	44.9	43.3	41.3	38.9	35.7
30	Btu/h	4950	4570	4200	3840	3460	3040	2580
	Watts	250	376	471	534	567	570	545
	Amps	5.91	5.82	5.89	6.05	6.25	6.42	6.49
	Lb/h	62.6	59.4	56.4	53.4	50.1	46.3	41.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.903029E+03	1.456927E+03	2.129400E+01	9.540835E+01
C2	-2.212609E+02	-1.014839E+02	-7.378660E-02	-3.133771E+00

C3	-1.118119E+02	-1.935045E+01	-4.152955E-01	-1.428824E+00
C4	6.385434E+00	-5.618173E-01	1.939788E-03	8.545759E-02
C5	2.899741E+00	1.935962E+00	5.798819E-04	3.910646E-02
C6	7.553645E-01	6.957642E-02	3.634650E-03	1.085441E-02
C7	1.259847E-01	2.901140E-03	-2.739645E-05	1.677730E-03
C8	-9.911292E-02	5.045378E-03	-6.127502E-06	-1.315177E-03
C9	8.406179E-04	-8.928567E-03	1.502791E-06	2.464614E-05
C10	-2.612453E-03	1.415480E-04	-1.065506E-05	-3.920720E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AEA9422EXA

General Information

Model	AEA9422EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	2880	2910	2810	2620	2400	2200	2060
	Watts	371	389	417	446	468	475	458
	Amps	5.71	5.70	5.75	5.85	5.98	6.10	6.20
	Lb/h	34.4	37.0	37.4	36.4	34.8	33.5	33.2
25	Btu/h	3370	3370	3230	3020	2780	2550	2400
	Watts	398	412	437	466	491	503	493
	Amps	5.81	5.80	5.86	5.98	6.12	6.26	6.38
	Lb/h	40.2	42.6	42.8	41.6	39.9	38.5	38.1
30	Btu/h	3860	3820	3650	3410	3140	2890	2710
	Watts	424	432	455	484	511	527	525
	Amps	5.91	5.90	5.97	6.10	6.25	6.42	6.57
	Lb/h	45.9	48.0	48.0	46.7	44.8	43.3	42.8
35	Btu/h	4380	4300	4090	3810	3510	3230	3030
	Watts	449	452	472	501	530	550	555
	Amps	6.01	6.01	6.09	6.22	6.40	6.58	6.76
	Lb/h	51.8	53.7	53.4	51.9	49.8	48.1	47.5
40	Btu/h	4940	4820	4570	4250	3920	3600	3370
	Watts	475	472	489	517	548	574	585
	Amps	6.11	6.11	6.20	6.35	6.55	6.75	6.96
	Lb/h	58.2	59.8	59.3	57.5	55.3	53.4	52.6
45	Btu/h	5570	5400	5110	4760	4380	4030	3770
	Watts	503	495	509	536	569	598	616
	Amps	6.21	6.23	6.33	6.50	6.71	6.94	7.17
	Lb/h	65.5	66.7	65.9	63.9	61.4	59.3	58.4
50	Btu/h	6300	6080	5740	5340	4930	4540	4240
	Watts	535	521	531	558	592	625	650
	Amps	6.33	6.35	6.47	6.65	6.89	7.14	7.40
	Lb/h	73.9	74.8	73.7	71.3	68.6	66.3	65.2

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.188812E+04	9.145161E+02	9.946366E+00	-2.026700E+02
C2	2.101035E+02	3.517355E+01	7.049922E-02	2.413835E+00

C3	3.387114E+02	-2.985845E+01	-1.399421E-01	5.558975E+00
C4	-1.883862E+00	-1.501138E-01	-7.495171E-04	-2.931443E-02
C5	-8.889944E-01	-5.037739E-01	-7.454909E-04	-7.195396E-03
C6	-2.976592E+00	3.752521E-01	1.308222E-03	-4.801803E-02
C7	3.184274E-02	1.883175E-03	5.885780E-06	4.178540E-04
C8	-6.441091E-03	-3.743907E-04	2.353423E-06	-5.165590E-05
C9	2.947981E-03	2.479299E-03	4.099797E-06	2.996029E-05
C10	8.332578E-03	-1.395945E-03	-3.864336E-06	1.349075E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature